

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**ATTORNEY DOCKET NO. 029471/0149**

Applicant: Katsuyuki TANAKA

Title: SYSTEM AND METHOD FOR MANAGING NETWORK  
CONFIGURATION DATA, COMPUTER PROGRAM FOR SAME

Appl. No.: Unassigned

Filing Date: 04/25/2001

Examiner: Unassigned

Art Unit: Unassigned

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to examination of the present Application, Applicant respectfully requests  
that the above-identified application be amended as follows:

**IN THE SPECIFICATION:**

On page 14, delete the 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> full paragraphs, and replace these  
paragraphs with the following in accordance with 37 C.F.R. §1.121. A marked up  
version showing the changes is attached:

Figs. 2(a) and 2(b) are diagrams that help any person skilled in the relevant art  
understand one embodiment of the present invention;

Figs. 3(a), 3(b), and 3(c) are diagrams that help any person skilled in the relevant  
art understand one embodiment of the present invention, including the current map  
class, the temporary map class, and the directories under the respective maps;

Figs. 4(a), 4(b), 4(c), and 4(d) are diagrams that help any person skilled in the relevant art understand how the configuration could be changed according to one embodiment of the present invention;

On page 15, delete the 3<sup>rd</sup>, 5<sup>th</sup> and 9<sup>th</sup> full paragraphs, and replace these paragraphs with the following in accordance with 37 C.F.R. §1.121.

Figs. 10(a), 10(a'), and 10(b) are diagrams that help any person skilled in the relevant art understand the process of generating a new current map according to one embodiment of the present invention;

Figs. 12(a), 12(b), and 12(c) are flowcharts that depict the process of deleting, modifying, and adding an entry under the current map entry during the current and temporary map merging process (Fig. 11) according to one embodiment of the present invention;

Figs. 16(a) and 16(b) are diagrams that help any person skilled in the relevant art understand the third embodiment of the present invention;

On page 16, delete the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> full paragraphs, and replace these paragraphs with the following in accordance with 37 C.F.R. §1.121.

Figs. 17(a), 17(a'), 17(b), and 17(c) are also diagrams that help any person skilled in the relevant art understand the third embodiment of the present invention;

Figs. 18(a), 18(b), and 18(c) are flowcharts that depict the process of deleting, modifying, and adding an entry under the current map entry according to the third embodiment of the present invention; and

Figs. 19(a) and 19(b) are flowcharts that depict the process of generating an entry designated as Add or Modify in the log map according to the third embodiment of the present invention.

On page 26, delete the 2<sup>nd</sup> full paragraph, and replace this paragraph with the following in accordance with 37 C.F.R. §1.121.

Figs. 3(a), 3(b), and 3(c) illustrate how the map and directory classes are defined for use in one embodiment of the present invention, and show the data structure for each entry in each of the map and directory classes. Each directory entry has an identifier that identifies the location of the entry within the directory tree, and its own entry name included in the identifier. Those are the required attributes.

On page 28, delete the 5<sup>th</sup> full paragraph, and replace this paragraph with the following in accordance with 37 C.F.R. §1.121.

Referring now to Figs. 4(a), 4(b), 4(c), and 4(d), the operation of one embodiment of the present invention is described. Figs. 4(a) – 4(d) illustrate the network configuration that may be used in conjunction with the operation that is described below.

On page 50, delete the 3<sup>rd</sup> full paragraph, and replace this paragraph with the following in accordance with 37 C.F.R. §1.121.

Figs. 17(a), 17(b), and 17(c) represent the network configuration that includes the log map tree (c) that is added to the network configuration shown in Figs. 10(a), 10(a'), and 10(b) and described in connection with the first embodiment by changing the directory tree to reflect such change. The log map 1 is designated as a root entry for the log map tree.

On page 52, delete the 4<sup>th</sup> full paragraph, and replace this paragraph with the following in accordance with 37 C.F.R. §1.121.

Figs. 19(a) and 19(b) provide the details of the respective operations performed by the steps F6, G7 and H7.

REMARKS

The Examiner is respectfully requested to enter the above amendments prior to examination of the instant application. The amendments are made to correct clerical and grammatical errors and do not to change the scope of the invention.

Respectfully submitted,

  
LYLE KIMMS  
REG. No. 34079  
David A. Blumenthal  
Attorney for Applicant  
Registration No. 26,257

April 25, 2001

Date

FOLEY & LARDNER  
Washington Harbour  
3000 K Street, N.W., Suite 500  
Washington, D.C. 20007-5109  
Telephone: (202) 672-5407  
Facsimile: (202) 672-5399

**VERSION WITH MARKINGS TO SHOW CHANGES MADE****On Page 14:**

Figs. 2(a) and 2(b) [is a] are diagrams that help[s] any person skilled in the relevant art understand one embodiment of the present invention;

Figs. 3(a), 3b, and 3(c) [is a] are diagrams that help[s] any person skilled in the relevant art understand one embodiment of the present invention, including the current map class, the temporary map class, and the directories under the respective maps;

Figs. 4(a), 4(b), 4(c) and 4(d) [is a] are diagrams that help[s] any person skilled in the relevant art understand how the configuration could be changed according to one embodiment of the present invention;

**On Page 15:**

Figs. 10(a), 10(a'), and 10(b) [is a] are diagrams that help[s] any person skilled in the relevant art understand the process of generating a new current map according to one embodiment of the present invention;

Figs. 12(a), 12(b), and 12(c) [is a] are flowcharts that depict[s] the process of deleting, modifying, and adding an entry under the current map entry during the current and temporary map merging process (Fig. 11) according to one embodiment of the present invention;

Figs. 16(a) and 16(b) [is a] are diagrams that help[s] any person skilled in the relevant art understand the third embodiment of the present invention;

**On Page 16:**

Figs. 17(a), 17(a'), 17(b), and 17(c) [is] are also [a] diagrams that help[s] any person skilled in the relevant art understand the third embodiment of the present invention;

Figs. 18(a), 18(b), and 18(c) [is a] are flowcharts that depict[s] the process of deleting, modifying, and adding an entry under the current map entry according to the third embodiment of the present invention; and

Figs. 19(a) and 19(b) [is a] are flowcharts that depict[s] the process of generating an entry designated as Add or Modify in the log map according to the third embodiment of the present invention.

**On Page 26:**

Figs. 3(a), 3(b), and 3(c) illustrate[s] how the map and directory classes are defined for use in one embodiment of the present invention, and show[s] the data structure for each entry in each of the map and directory classes. Each directory entry has an identifier that identifies the location of the entry within the directory tree, and its own entry name included in the identifier. Those are the required attributes.

**On Page 28:**

Referring now to Figs. 4(a), 4(b), 4(c), and 4(d), the operation of one embodiment of the present invention is described. Figs. 4(a) – 4(d) illustrate[s] the network configuration that may be used in conjunction with the operation that is described below.

On Page 50:

Figs. 17(a), 17(b), and 17(c) represent[s] the network configuration that includes the log map tree (c) that is added to the network configuration shown in Figs. 10a, 10(a'), and 10(b) and described in connection with the first embodiment by changing the directory tree to reflect such change. The log map 1 is designated as a root entry for the log map tree.

On Page 52:

Figs. 19(a) and 19(b) provide[s] the details of the respective operations performed by the steps F6, G7 and H7.